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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/775,906	02/10/2004	Takehiko Konja	MAT-8503US	1203	
23122 RATNERPRE	7590 09/25/2007 STIA	EXAMINER			
P O BOX 980			DABNEY, PHYLESHA LARVINIA		
VALLEY FORGE, PA 19482-0980			ART UNIT	PAPER NUMBER	
			2614		
	•		MAIL DATE	DELIVERY MODE	
			09/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Ap	pplication No.		Applicant(s)			
	10	0/775,906		KONJA ET AL.			
Office Action Summary		aminer	,	Art Unit	<u> </u>		
·	Ph	ylesha L. Dabney		2614			
The MAILING DATE of this comm	nunication appears	s on the cover sh	eet with the co	rrespondence a	ddress		
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this or if NO period for reply is specified above, the maximumum of Failure to reply within the set or extended period for Any reply received by the Office later than three more armed patent term adjustment. See 37 CFR 1.7040	E MAILING DATE sions of 37 CFR 1.136(a). communication. Important statutory period will appreply will, by statute, caus on this after the mailing date	OF THIS COMN In no event, however, ply and will expire SIX (se the application to bec	MUNICATION. may a reply be time! (6) MONTHS from th	ly filed te mailing date of this (35 U.S.C. § 133).			
Status							
1) Responsive to communication(s) filed on <u>07 June</u> :	<u> 2007</u> .					
2a)⊠ This action is FINAL .	•						
* * *	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the pr	actice under Ex pa	arte Quayle, 193	5 C.D. 11, 453	3 O.G. 213.			
Disposition of Claims							
4) ⊠ Claim(s) <u>1-11</u> is/are pending in t 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-5 and 7-11</u> is/are rejective. 7) ⊠ Claim(s) <u>6</u> is/are objected to. 8) □ Claim(s) are subject to respect to respective.	is/are withdrawn fo						
Application Papers							
9) The specification is objected to b 10) The drawing(s) filed on is/ Applicant may not request that any Replacement drawing sheet(s) inclu 11) The oath or declaration is objected	are: a) accepte objection to the draw ding the correction i	ving(s) be held in a is required if the dr	abeyance. See awing(s) is obje	37 CFR 1.85(a). cted to. See 37 0			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a classical All b) Some * c) None of the price of the certified copies of the price of the certified copies of the price of the certified copies	of: ority documents ha ority documents ha oies of the priority of national Bureau (P	ave been received ave been received documents have CT Rule 17.2(a))	d. d in Application been received).	n No I in this Nationa	al Stage		
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Attachment(s)		🗖 .	,	ama 445			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Reviews Information Disclosure Statement(s) (PTO/SB Paper No(s)/Mail Date 6/7/07. 		Pap 5) 🔲 Noti	erview Summary (f per No(s)/Mail Date lice of Informal Par er:	e			

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DETAILED ACTION

This action is in response to the Amendment filed on 4 June 2007 in which claims 1-10 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Minami et al (U.S. Patent No. 6,886,221).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1-4, Minami teaches an opening and closing device (fig. 2) comprising: a stator (17-31) having a stator cam; and a rotor (10-15) having a rotor cam urged to the stator cam by a spring (11, 28), and rotatable with respect to the stator; wherein the stator cam (17-31) includes: a flat stator portion (18, 19) and a projecting stator portion (18a, 20), the projecting

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stator portion including a first and second tilting portion (fig. 6b) extending from the flat stator portion to the first tilting portion, and a first inclined plane (fig. 6b) formed on a side wall of at least one of the first tilting portion and the flat stator portion; and wherein, the rotor cam (10-15) includes: a projecting rotor portion (13, 16); and a second inclined plane (figs. 5a-5d) formed on a side wall of the projecting rotor portion; and wherein, friction between the stator cam and the rotor cam is greater (a) when the first inclined plane and the second inclined plane are in contact with each other than (b) when the first inclined plane and the second inclined plane are not in contact with each other (figs. 5a-7b).

Regarding claims 5 and 8, Minami teaches the opening and closing device of claim 1 for use in electronic equipment, the electronic equipment comprising: a fix housing (33) having at least one of an operating part and a sound input part formed on a top face thereof; and a movable housing (34) having at least one of a display and a sound output part formed on a surface thereof; wherein the stator is attached to the fix housing; and the rotor is attached to the movable housing (col. 5 lines 20-30).

Regarding claims 7 and 9-10, Minami teaches electronic equipment having an opening and closing device, the electronic equipment comprising: a fixing housing (33) having at least one of an operating part and a sound input part formed on a top face thereof; a movable housing (34) having at least one of a display and a sound output part formed on a surface thereof; and the opening and closing device comprising: a stator (17-31) having a stator cam; a rotor (10-15) having a rotor cam urged to the stator cam by a spring (11, 28), and rotatable with respect to the

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stator; wherein the stator cam <u>includes</u>: a flat stator portion (18, 19) and a projecting stator portion (18a, 20), the projecting stator portion including a first and second tilting portion (fig. 6b) extending from the flat stator portion to the first tilting portion, and a first inclined plane (fig. 6b) formed on a side wall of at least one of the first tilting portion and the flat stator portion; and wherein, the rotor cam (10-15) includes: a projecting rotor portion (13, 16); and a second inclined plane (figs. 5a-5d) formed on a side wall of the projecting rotor portion; and wherein, friction between the stator cam and the rotor cam is greater (a) when the first inclined plane and the second inclined plane are in contact with each other than (b) when the first inclined plane and the second inclined plane are not in contact with each other (figs. 5a-7b).

Regarding claim 11, Minami teaches the opening and closing device of claim 1, wherein the rotor cam (10-15) further includes a flat portion formed on a side of the rotor, wherein the projecting portion (18a, 20) of the stator cam further includes a projecting top portion, a third and fourth tilting portion (figs. 5a-5d; 15a, 15b), the third tilting portion and the fourth tilting portion extend from the projecting top portion, at least one of the third tilting portion and the fourth tilting portion without involving the projecting top portion and the flat portion has the second inclined plane (fig. 6b), and the flat portion (18, 19) is connected to the fourth tilting portion, and wherein the first inclined plane is formed on a side wall of the projecting top portion of the stator cam; and the first inclined plane formed on the side wall of the projecting top portion of the stator cam contacts the second inclined plain formed on at least one of the third tilting portion and the flat portion of the rotor.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phylesha L. Dabney whose telephone number is 571-272-7494. The examiner can normally be reached on Mondays, Wednesdays, Fridays 8:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks P O Box 1450 Alexandria, VA 22313-1450

Or faxed to:

(703) 273-8300, for formal communications intended for entry and for informal or draft communications, please label "Proposed" or "Draft" when submitting an informal amendment.

Hand-delivered responses should be brought to:

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September 14, 2007

PLD

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